

## Range Flight Safety Operations

**Course:** GSFC-RFSO

**Duration:** 24 hours

This introductory course focuses on the roles and responsibilities of the Range Safety Officer (RSO) or Flight Safety Officer (FSO) during Range Flight Safety activities and real-time support including pre-launch/flight, launch/flight, and recovery/landing for NASA Sounding Rocket, Unmanned Aircraft System, and Expendable Launch Vehicle operations. Range Flight Safety policies, guidelines, and requirements applicable to the duties of an RSO for each vehicle type are reviewed. Launch/Flight constraints and commit criteria, mission rules, day of launch/flight activities, and display techniques are presented. Tracking and telemetry, post-flight operations, lessons learned, and the use and importance of contingency plans are discussed. This course includes several classroom exercises to reinforce techniques and procedures utilized during Range Flight Safety operations.

Due to the unique interaction with real-world equipment, this course is conducted at Wallops Flight Facility and class size is limited to a maximum of twelve (12) students.

### Prerequisites:

- SMA-AS-WBT-410, Range Flight Safety Orientation, or equivalent experience and/or training, is required.
- SMA-AS-WBT-335, Flight Safety Systems, or equivalent experience and/or training, is required.
- SMA-AS-WBT-435, NASA Range Flight Safety Analysis, or equivalent experience and/or training, is required.

### Target Audience:

- Anyone identified as needing initial training for personnel performing RSO/FSO functions during NASA range flight operations.
- Personnel in the management chain responsible for oversight of RSOs/FSOs.
- Personnel directly supporting or interacting with an RSO/FSO during NASA range flight operations.

